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PTO/SB/08A (10-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

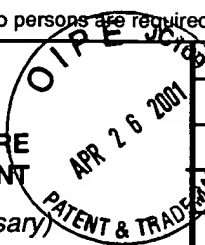
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Substitute for form 1449A/PTO
(Modified by BSTZ 6/30/99)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known



Application Number	09/710,579
Filing Date	November 10, 2000
First Named Inventor	Mark Alan Erickson, et al.
Group Art Unit	1743 2642
Examiner Name	Unassigned Bing Bui
Attorney Docket Number	001340P083

Sheet	1	of	1
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U.S. PATENT DOCUMENTS

Examiner Initials *	U.S. Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Filing Date if Appropriate
		Number				
B		5,887,032		Cioffi	03/23/1999	09/03/1996
B		5,995,566		Rickard et al.	11/30/1999	10/28/1996
B		6,055,297		Terry	04/25/2000	08/02/1996

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No
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OTHER DOCUMENTS

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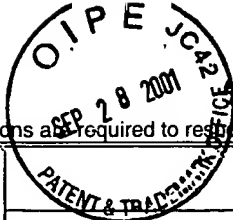


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		First Named Inventor	Mark Alan Erickson et al.	
		Group Art Unit	2642 1743	
		Examiner Name	BING BUI Unassigned	
Sheet 2 of 9		Attorney Docket Number	001340.P083	

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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
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B ²	K. GIRIDHAR et al., IEEE Transactions on Communications, Vol. 45, No. 4, April 1997, "Nonlinear Techniques for the Joint Estimation of Cochannel Signals", pp 473-484.	No
B ²	LANG TONG et al., IEEE Transactions on Signal Processing, Vol. 47, No. 9, September 1999, "Joint Order Detection and Blind Channel Estimation by Least Squares Smoothing", pp 2345-2355	No
B ²	ERIC MOULINES et al., IEEE Transactions on Signal Processing, Vol. 43, No. 2, February 1995, "Subspace Methods for the Blind Identification of Multichannel FIR Filters", pp 516-525.	No
B ²	ALEXANDRA DUEL-HALLEN et al., IEEE Personal Communications, April 1995, "Multiuser Detection for CDMA Systems", pp 46-58.	No
Examiner	Date Considered 6/16/04	

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		Group Art Unit	2642 4743	
		Examiner Name	BING BUI Unassigned	
Sheet 7 of 9	Attorney Docket Number	001340.P083		

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Bv	D. GODARD, IEEE Transaction Communications, Vol. COM-28, No. 11, November 1980, "Self-Recovering Equalization and Carrier Tracking in Two-Dimensional Data Communication Systems", pp 1867-1875.	No
Bv	LENNART LJUNG, PTR Prentice Hall Information and System Sciences Series, "System Identification, Theory for the User", Second Edition, 1999, pp 79-139, 197-279, 317-360.	No
Bv	RAUL A. CASAS et al., Broadcasting & Cable, "Current Approaches to Blind Decision Feedback Equalization", August 1999, pp 1-52.	No
Bv	JOHN G. PROAKIS, McGraw Hill Series in Electrical and Computer Engineering, "Digital Communications, Third Edition, 1995, pp 267-286.	No
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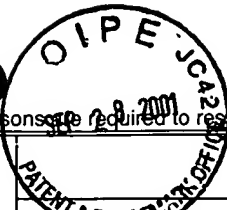
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	Filing Date	November 10, 2000
	First Named Inventor	Mark Alan Erickson et al.
	Group Art Unit	2642 1743
Examiner Name	BING BUI Unassigned	
Sheet 6 of 9	Attorney Docket Number	001340.P083

U.S. PATENT DOCUMENTS				
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B ²	STEPHEN BOYD et al., "Convex Optimization", Course Reader for EE364: Introduction to Convex Optimization with Engineering Applications, Stanford University, Winter Quarter 1996-1997, pp 1-146.	No
B ²	AMIT MATHUR, Dissertation from Electrical and Computer Engineering, University of California, Santa Barbara, "Algorithms for Cochannel Source Separation and Signal Estimation", December 1996, pp 1-165.	No
B ²	EDWARD A. LEE et al., Kluwer Academic Publishers, "Digital Communication", Second Edition, 1994, pp 408-424, 468-486.	No
B ²	THOMAS STARR et al., Prentice Hall, Communication Engineering and Emerging Technologies, "Understanding Digital Subscriber Line Technology", 1999, pp 297-354.	

Examiner <i>Bing Bui</i>	Date Considered 6/16/04
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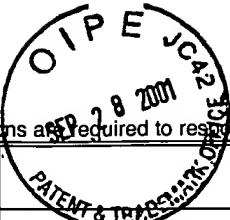
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	Application No	09/710,579
	Filing Date	November 10, 2000
	First Named Inventor	Mark Alan Erickson et al.
	Group Art Unit	2642 1748
	Examiner Name	BING BUI Unassigned
Sheet 5 of 9	Attorney Docket Number	001340.P083

U.S. PATENT DOCUMENTS

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B~	J. CIOFFI, EEE379A, "Digital Communication: Signal Processing Class notes, Stanford University, pp 167-174, 194-197.	No
B~	ARTHUR GELB et al., The Analytic Sciences Corporation, "Applied Optimal Estimation", 1974, pp 156-179.	No
B~	SIMON HAYKIN, Prentice Hall Information and System Sciences Series, "Adaptive Filter Theory", Third Edition, 1996, pp 772-815.	No
B~	IAN R. PETERSEN et al., Control Engineering, "Robust Kalman Filtering for Signal and Systems with Large Uncertainties", 1999, pp 35-55.	No

Examiner <i>Eric S. Davis</i>	Date Considered 6/16/04
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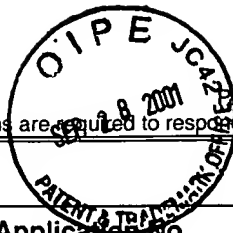
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STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application No

09/710,579

Filing Date

November 10, 2000

First Named Inventor

Mark Alan Erickson et al.

Group Art Unit

2642 1743

Examiner Name

Bing Bui Unassigned

Sheet 3 of 9

Attorney Docket Number

001340.P083

U.S. PATENT DOCUMENTS

Examiner Initials*	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate

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B✓	UPAMANYU MADHOW et al., IEEE Transactions on Communications, Vol. 42, No. 12, December 1994, "MMSE Interference Suppression for Direct-Sequence Spread-Spectrum CDMA" pp 3178-3188	No
B✓	C. RICHARD JOHNSON, JR. et al., Proceedings of the IEEE, Vol. 86, No. 10, October 1998, "Blind Equalization Using the Constant Modulus Criterion: A Review", pp 1927-1950	No
B✓	P. CIBLAT et al., "Asymptotic Analysis of Blind Cyclic Correlation Based Symbol Rate Estimation", September 2000	No
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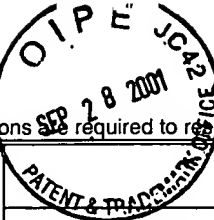
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Group Art Unit

2642 ~~1743~~

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Sheet 4 of 9

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B2	LENNART LJUNG, Prentice-Hall Information and System Sciences Series, "System Identification, Theory for the User", 1987, pp 141-163, 239-263.	No
B2	YAAKOV BAR-SHALOM et al., Artech House, Inc., "Estimation and Tracking: Principles, Techniques, and Software", 1993, pp 450-465.	No
B2	International Telecommunication Union, ITU-T Telecommunication Standardization Sector of ITU, G.810, "Definitions and Terminology for Synchronization Networks", August 1996, pp 1-20	No
B2	ADSL Forum Technical Report TR-024 for Network Management Working Group, "DMT Line Code Specific MIB", June 1999, pp 1-7	No

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Filing Date

November 10, 2000

First Named Inventor

Mark Alan Erickson et al.

Group Art Unit

2642 ~~1749~~

Examiner Name

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Sheet 8 of 9

Attorney Docket Number

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B ²		CRAIG MICHAEL TEUSCHER, Dissertation submitted as requirement for the degree of Dr. of Philosophy in Engineering-Electrical Engineering and Computer Sciences, "Low Power Receiver Design for Portable RF Applications: Design and Implementation of an Adaptive Multiuser Detector for an Indoor, Wideband CDMA Application, Fall 1998, pp 37, 43-52	No
B ²		CLAES TIDESTAV et al., Signals and Systems, Uppsala University, "Realizable MIMO Decision Feedback Equalizers", International Conference on Acoustics, Speech, and Signal Processing (ICASSP99) March 1999, Phoenix, AZ, V.5, pp 2591-2594.	No

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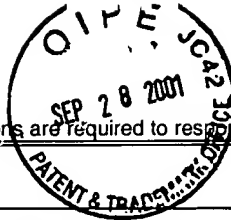
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B2	K. SAM SHANMUGAN et al., John Wiley & Sons, "Random Signals, Detection, Estimation and Data Analysis", 1988, pp 341-377.	No
B2	HARRY L. VAN TREES, Massachusetts Institute of Technology, "Detection, Estimation, and Modulation Theory", 1968, pp 19-163, 239-418.	

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Page 1 of 2		First Named Inventor: Mark Alan Erickson, et al..	RECEIVED MAR 04 2002 TC 1700
		Filing Date: November 10, 2000	

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (If known)			
B ²		US4669113		Ash, et al.	5/26/1987	
B ²		US5063351		Goldthorp, et al.	11/5/1991	
B ²		US5343461		Barton, et al.	8/30/1994	
B ²		US5858151		Boudy	12/8/1998	
B ²		US5926538		Deryugin, et al.	7/20/1999	
B ²		US6160790		Bremer	12/12/2000	

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Pg. 2 of 2		First Named Inventor: Mark Alan Erickson, et al.	RECEIVED MAR 9 4 2002
		Filing Date: November 10, 2000	
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, city and/or country where published	Translation ²
B ²		PCT Search Report, PCT/US00/42097, 10 November 2000, Date of Mailing: 26 June 2001 (5 pgs.)	
B ²		PCT Search Report, PCT/US00/30859, 10 November 2000, Date of Mailing: 27 March 2001 (5 pgs.)	
B ²		PCT Search Report, PCT/US00/30858, 10 November 2000, Date of Mailing: 16 March 2001 (7 pgs.)	
B ²		PCT Search Report, PCT/US00/30887, 11 November 1999, Date of Mailing: 09 August 2001 (24 pgs.)	
B ²		PCT Search Report, PCT/US00/30967, 10 November 2000, Date of Mailing: 24 January 2001 (7 pgs.)	
B ²		PCT Search Report, PCT/US00/31026, 10 November 2000, Date of Mailing: 22 January 2001 (7 pgs.)	
B ²		HONIG, M.L. et al, "Suppression of Near- and Far-End Crosstalk by Linear Pre- and Post-Filtering", Selected Areas in Communications, IEEE Journal on. Vol 10 Issue 3, April 1992, pages 614-629, entire document	

Examiner Signature	<i>Mark A. Erickson</i>	Date Considered	6/16/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/710,579
				Filing Date	November 10, 2000
				First Named Inventor	Mark Alan Erickson
				Art Unit	1743 2642
				Examiner Name	Unknown BING-BU
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B ²		PETERSEN, BRENT R., et al., "Minimum Mean Square Equalization in Cyclostationary and Stationary Interference-Analysis and Subscriber Line Calculations", Student Member, IEEE Journal, Vol. 9, No. 6, August 1991, pp. 11.		
B ²		VALENTI, CRAIG F., Bellcore, "Cable Crosstalk Parameters and Models", ANSI Contribution TIE1.4/97-302 Technical Subcommittee Working Group Members, Spectral Compatibility, Morristown, NJ 07960, USA, September 22, 1997, pp. 8.		

Examiner Signature	<i>Paul A. [Signature]</i>	Date Considered	6/16/04
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